

# SEQUENCE LISTING

<110> Rothschild, Max

<120> Genetic Markers for Improved

<130> ISURF 2697

<140> US 01 10/816,304

<141> 2004-04-01

<160> 29

<170> PatentIn version 3.3

<210> 1

<211> 746

<212> DNA

<213> Sus scrofa

<400> 1

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cggacgcaca gagtttcaca gtgaatattg ataatgtcat tgactcagt atctgtagct      180
ccttactcgc ctcaatttgc agcctgcttt cgattgcagt ggacaggat tttactatct      240
tttatgctct ccagtacat aacattatga cagttaagcg ggttggaaatc atcatcagtt      300
gtatctgggc agtctgcacg gtgtcgggtg ttttgttcat catttactca gatagcagt      360
ctgttattat ctgcctcata accgtgttct tcaccatgct ggctctcatg gcttctctct      420
atgtccacat gttcctcatg gccagactcc acattaagag gatcgccgtc ctcccaggca      480
ctggcaccat ccgccaaggt gccaacatga agggggcaat taccctgacc atcttgattg      540
gggtctttgt ggtctgctgg gcccccttct tctccactt aatattctat atctcctgcc      600
cccagaatcc atactgtgtg tgcttcatgt ctacttttaa tttgtatctc atcctgatca      660
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<210> 2

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<212> DNA

<213> Homo sapiens

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cagttaagcg ggttgggatc agcataagtt gtatctgggc agcttgcacg gtttcaggca 360
ttttgttcat catttactca gatagtagtg ctgtcatcat ctgcctcatc accatgttct 420
tcaccatgct ggctctcatg gcttctctct atgtccacat gttcctgatg gccaggcttc 480
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tcctccactt aatattctac atctcttgtc ctcagaatcc atattgtgtg tgcttcatgt 660
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atgcactccg gagtcaagaa ctgaggaaaa cttcaaaga gatcatctgt tgctatcccc 780
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<210> 3
<211> 311
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<213> Homo sapiens

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<400> 3

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Gln Leu Phe Val Ser Pro Glu Val Phe Val Thr Leu Gly Val Ile Ser
1             5             10             15

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Leu Leu Glu Asn Ile Leu Val Ile Val Ala Ile Ala Lys Asn Lys Asn
                20             25             30

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Leu His Ser Pro Met Tyr Phe Phe Ile Cys Ser Leu Ala Val Ala Asp
          35             40             45

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Met Leu Val Ser Val Ser Asn Gly Ser Glu Thr Ile Ile Ile Thr Leu
          50             55             60

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Leu Asn Ser Thr Asp Thr Asp Ala Gln Ser Phe Thr Val Asn Ile Asp
65             70             75             80

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Asn Val Ile Asp Ser Val Ile Cys Ser Ser Leu Leu Ala Ser Ile Cys  
                             85                            90                            95

Ser Leu Leu Ser Ile Ala Val Asp Arg Tyr Phe Thr Ile Phe Tyr Ala  
                             100                            105                            110

Leu Gln Tyr His Asn Ile Met Thr Val Lys Arg Val Gly Ile Ser Ile  
                             115                            120                            125

Ser Cys Ile Trp Ala Ala Cys Thr Val Ser Gly Ile Leu Phe Ile Ile  
                             130                            135                            140

Tyr Ser Asp Ser Ser Ala Val Ile Ile Cys Leu Ile Thr Met Phe Phe  
 145                            150                            155                            160

Thr Met Leu Ala Leu Met Ala Ser Leu Tyr Val His Met Phe Leu Met  
                             165                            170                            175

Ala Arg Leu His Ile Lys Arg Ile Ala Val Leu Pro Gly Thr Gly Ala  
                             180                            185                            190

Ile Arg Gln Gly Ala Asn Met Lys Gly Ala Ile Thr Leu Thr Ile Leu  
                             195                            200                            205

Ile Gly Val Phe Val Val Cys Trp Ala Pro Phe Phe Leu His Leu Ile  
                             210                            215                            220

Phe Tyr Ile Ser Cys Pro Gln Asn Pro Tyr Cys Val Cys Phe Met Ser  
 225                            230                            235                            240

His Phe Asn Leu Tyr Leu Ile Leu Ile Met Cys Asn Ser Ile Ile Asp  
                             245                            250                            255

Pro Leu Ile Tyr Ala Leu Arg Ser Gln Glu Leu Arg Lys Thr Phe Lys  
                             260                            265                            270

Glu Ile Ile Cys Cys Tyr Pro Leu Gly Gly Leu Cys Asp Leu Ser Ser  
                             275                            280                            285

Arg Tyr Ala Pro Pro Glu Asn Asp Ile Xaa Val Ile Cys Asn Phe Ile  
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Asp Glu Asn Thr Ile Ala Leu  
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<210> 4  
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 <213> Sus scrofa

<400> 4

Lys Asn Leu His Ser Pro Met Tyr Phe Phe Ile Cys Ser Leu Ala Val  
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Ala Asp Met Leu Val Ser Val Ser Asn Gly Ser Glu Thr Ile Val Ile  
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Thr Leu Leu Asn Ser Thr Asp Thr Asp Ala Gln Ser Phe Thr Val Asn  
 35 40 45

Ile Asp Asn Val Ile Asp Ser Val Ile Cys Ser Ser Leu Leu Ala Ser  
 50 55 60

Ile Cys Ser Leu Leu Ser Ile Ala Val Asp Arg Tyr Phe Thr Ile Phe  
 65 70 75 80

Tyr Ala Leu Gln Tyr His Asn Ile Met Thr Val Lys Arg Val Gly Ile  
 85 90 95

Ile Ile Ser Cys Ile Trp Ala Val Cys Thr Val Ser Gly Val Leu Phe  
 100 105 110

Ile Ile Tyr Ser Asp Ser Ser Ala Val Ile Ile Cys Leu Ile Thr Val  
 115 120 125

Phe Phe Thr Met Leu Ala Leu Met Ala Ser Leu Tyr Val His Met Phe  
 130 135 140

Leu Met Ala Arg Leu His Ile Lys Arg Ile Ala Val Leu Pro Gly Thr  
 145 150 155 160

Gly Thr Ile Arg Gln Gly Ala Asn Met Lys Gly Ala Ile Thr Leu Thr  
 165 170 175

Ile Leu Ile Gly Val Phe Val Val Cys Trp Ala Pro Phe Phe Leu His

180	185	190
Leu Ile Phe Tyr Ile Ser Cys Pro Gln Asn Pro Tyr Cys Val Cys Phe		
195	200	205
Met Ser His Phe Asn Leu Tyr Leu Ile Leu Ile Met Cys Asn Ser Ile		
210	215	220
Ile Asn Pro Leu Ile Tyr Ala Leu Arg Ser Gln Glu Leu Arg Lys Thr		
225	230	235
240		
Phe Lys Glu Ile Ile Cys Cys Tyr		
245		

<210> 5  
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<210> 6  
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<400> 6  
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<210> 7  
 <211> 18  
 <212> DNA  
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<400> 7  
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<210> 8  
 <211> 19  
 <212> DNA  
 <213> Sus scrofa

<400> 8  
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<210> 9  
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<212> DNA  
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<210> 10  
 <211> 22  
 <212> DNA  
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<400> 10  
 atagcaacag atgatctctt tg 22

<210> 11  
 <211> 24  
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<400> 11

Met	Ser	His	Phe	Asn	Leu	Tyr	Leu	Ile	Leu	Ile	Met	Cys	Asn	Ser	Ile
1				5				10					15		

Ile Asp Pro Leu Ile Tyr Ala Leu  
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<210> 12  
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<400> 12

Met	Ser	His	Phe	Asn	Leu	Tyr	Leu	Ile	Leu	Ile	Met	Cys	Asn	Ser	Ile
1				5				10					15		

Ile Asp Pro Leu Ile Tyr Ala Leu  
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<210> 13  
 <211> 24  
 <212> PRT  
 <213> Rattus norvegicus

<400> 13

Met	Ser	His	Phe	Asn	Leu	Tyr	Leu	Ile	Leu	Ile	Met	Cys	Asn	Ala	Val
1				5				10					15		

Ile Asp Pro Leu Ile Tyr Ala Leu  
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<210> 14  
<211> 23  
<212> PRT  
<213> Ovis

<400> 14

Met Ser His Phe Asn Met Tyr Leu Ile Leu Ile Met Cys Asn Ser Val  
1 5 10 15

Ile Asp Pro Leu Ile Tyr Ala  
20

<210> 15  
<211> 23  
<212> PRT  
<213> Sus scrofa

<400> 15

Met Ser His Phe Asn Met Tyr Leu Ile Leu Ile Met Cys Asn Ser Val  
1 5 10 15

Ile Asp Pro Leu Ile Tyr Ala  
20

<210> 16  
<211> 24  
<212> PRT  
<213> Sus scrofa

<400> 16

Met Ser Leu Phe Gln Val Asn Gly Val Leu Ile Met Cys Asn Ala Ile  
1 5 10 15

Ile Asp Pro Phe Ile Tyr Ala Leu  
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<210> 17  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 17

Ala His Phe Asn Thr Tyr Leu Val Leu Ile Met Cys Asn Ser Val Ile

1                    5                    10                    15

Asp Pro Leu Ile Tyr Ala  
20

<210> 18  
<211> 22  
<212> PRT  
<213> Mus

<400> 18

Ala His Phe Asn Thr Tyr Leu Val Leu Ile Met Cys Asn Ser Val Ile  
1                    5                    10                    15

Asp Pro Leu Ile Tyr Ala  
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<210> 19  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 19

Met Ser His Phe Asn Met Tyr Leu Ile Leu Ile Met Cys Asn Ser Val  
1                    5                    10                    15

Met Asp Pro Leu Ile Tyr Ala  
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<210> 20  
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<212> PRT  
<213> Homo sapiens

<400> 20

Ser Tyr Phe Asn Leu Phe Leu Ile Leu Ile Ile Cys Asn Ser Val Val  
1                    5                    10                    15

Asp Pro Leu Ile Tyr Ala  
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<210> 21  
<211> 25  
<212> PRT  
<213> Bos taurus



<400> 21

Leu Ala Tyr Glu Lys Phe Phe Leu Leu Leu Ala Glu Phe Asn Ser Ala  
1 5 10 15

Met Asn Pro Ile Ile Tyr Ser Tyr Arg  
20 25

<210> 22

<211> 19

<212> PRT

<213> Homo sapiens

<400> 22

Phe Leu Leu Leu Ala Glu Ala Asn Ser Leu Val Asn Ala Ala Val Tyr  
1 5 10 15

Ser Cys Arg

<210> 23

<211> 22

<212> PRT

<213> Homo sapiens

<400> 23

Val Phe Ala Phe Cys Ser Met Leu Cys Leu Leu Asn Ser Thr Val Asn  
1 5 10 15

Pro Leu Ile Tyr Ala Leu  
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<210> 24

<211> 21

<212> PRT

<213> Homo sapiens

<400> 24

Phe Gln Phe Phe Phe Trp Ile Gly Tyr Cys Asn Ser Ser Leu Asn Pro  
1 5 10 15

Val Ile Tyr Thr Ile  
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<210> 25

<211> 22

<212> PRT  
<213> Rattus norvegicus

<400> 25

Phe Asp Phe Val Val Ile Leu Thr Tyr Ala Asn Ser Cys Ala Asn Pro  
1 5 10 15

Ile Leu Tyr Ala Phe Leu  
20

<210> 26  
<211> 16  
<212> PRT  
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<400> 26

Leu Ala Tyr Ser Asn Ser Ser Val Asn Pro Ile Ile Tyr Ala Phe Leu  
1 5 10 15

<210> 27  
<211> 10  
<212> PRT  
<213> Sus scrofa

<400> 27

Cys Asn Ser Leu Ile Asp Pro Leu Ile Tyr  
1 5 10

<210> 28  
<211> 33  
<212> DNA  
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<400> 28  
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33

<210> 29  
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<212> DNA  
<213> Sus scrofa

<400> 29  
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33